K080807 Page 1.f3

NxStage Medical, Inc. Blood Tubing Sets Special 510(k) Device Modification

This 510(k) Summary of Safety and Effectiveness is being submitted in accordance with the requirements of SMDA 1990.

A. Submitter's Information:

JUL 1 8 2008

Name:

NxStage Medical Inc.

Address:

439 South Union Street, 5th Floor

Lawrence, MA 01843

FDA Establishment

Owner/Operator Number:

9045797

Contact Person:

Michael Doyle

Manager, Regulatory Affairs

Phone:

Fax:

(978) 687-4746

(978) 687-4750

Manufacturing Site:

MEDIMEXICO, S. DE R.L. DE C.V.

Av. Valle imperial No. 10523 Parque industrial Valle Sur Tijuana, B.C., Mexico 22180

FDA Establishment Registration Number:

9616074

Manufacturing/Sterilization

Site:

Kawasumi Laboratories Co. Ltd. 55/26-27 m-13 Phaholyothin Rd. Km-46 Klong Nueng, Klong Luang

Pratumtanee, Thailand

FDA Establishment Registration Number:

9680437

Manufacturing/Sterilization

Site:

Kawasumi Laboratories Co. Ltd. 48 Moo 8 Ratchasima-Chokchai Rd.,

Tambon Tha-ang, Amphur

Chokchai, Nakhorn Rachasima, Thailand

FDA Establishment Registration Number:

9615908

Sterilization Site:

Steris Corporation Isomedix Services, Inc. 1000 S. Sarah Place Ontario, CA 91761

K080807 Page 20f3

NxStage Medical, Inc. Blood Tubing Sets Special 510(k) Device Modification

FDA Establishment Registration Number:

Contract sterilizer

Sterilization Site:

STERIS Corporation Isomedix Service, Inc. 7685 St. Andrews Ave. San Diego, CA 92154

FDA Establishment Registration Number:

Contract sterilizer

B. Device Name:

Trade/Proprietary Name:

Blood Tubing Sets

Common/Usual Name:

Tubing sets

Classification Name:

Sets, Tubing, Blood, With and Without Anti-

Regurgitation Valve

Regulation Number:

876.5820

Product Code:

FJK

Device Classification:

Class II

Device Panel:

Gastroenterology/Urology

C. Substantial Equivalence/Predicate Devices:

The subject blood tubing sets are substantially equivalent to the following legally marketed predicate device, previously cleared by the FDA;

Arterial-Venous Blood Tubing Sets, K953823, September 23, 1996

D. Device Description/Indications for Use:

Medisystems/NxStage blood tubing sets consist of a family of products which are used during extracorporeal procedures to provide a means to connect blood access devices to a hemodialysis or hemofiltration machine and a hemodialyzer or hemofilter. To facilitate a hemodialysis procedure, for example, the arterial and/or venous blood tubing sets may contain features such as air trap chambers, filters, injection sites, pump segments, heparin infusion lines, saline administration lines, pressure pillows, priming sets, and pressure monitoring lines with or without transducer protectors. Numerous product codes are produced to accommodate various manufacturer's dialysis machines, as well as differing clinical preferences and clinical procedures.

Indications for use:

The blood tubing sets are indicated for use with a medically prescribed hemodialyzer. The suitability of a particular configuration is the responsibility of the physician in charge.

K080807 Pag 323

NxStage Medical, Inc. Blood Tubing Sets Special 510(k) Device Modification

E. Technological Characteristics:

The subject device has the same technological characteristics and is similar in design and configuration as compared to the predicate device. The subject device is designed with similar components and features also used in the predicate device.

F. Summary of Non-Clinical Test/Performance Testing - Bench

NxStage Medical, Inc. believes that the information and data provided in this submission clearly describes the subject device and demonstrates that the device is adequately designed for the labeled indications for use. Performance, verification and validation testing was conducted to characterize performance of the subject blood tubing sets to provide a basis of comparison to the predicate device as all features are not identical. Results of this testing have documented that the subject blood tubing sets are substantially equivalent to the predicate device and are suitable for the labeled indications for use.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

JUL 1 8 2003

Mr. Michael J. Doyle Manager, Regulatory Affairs NxStage Medical, Inc. 439 South Union Street 5th Floor LAWRENCE MA 01843

Re: K080807

Trade/Device Name: Blood Tubing Sets (Sterile Fluid Path)

Regulation Number: 21 CFR §876.5820

Regulation Name: Hemodialysis system and accessories

Regulatory Class: II

Product Codes: FJK and KOC

Dated: July 10, 2008 Received: July 11, 2008

Dear Mr. Doyle:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the <u>Code of Federal Regulations</u>, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21) CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (OS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Center for Devices and Radiological Health's (CDRH's) Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter.

21 CFR 876.xxxx	(Gastroenterology/Renal/Urology)	240-276-0115
21 CFR 884.xxxx	(Obstetrics/Gynecology)	240-276-0115
21 CFR 892.xxxx	(Radiology)	240-276-0120
Other		240-276-0100

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at 240-276-3474. For questions regarding the reporting of device adverse events (Medical Device Reporting (MDR)), please contact the Division of Surveillance Systems at 240-276-3464. You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Nancy C. Brogdon

Director, Division of Reproductive, Abdominal, and Radiological Devices

Office of Device Evaluation

Mancy C Brogdon

Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known):

K080807

Device Name: Blood Tubing Sets (Sterile Fluid Path)

Indications for Use:

The blood tubing sets are indicated for use with a medically prescribed hemodialyzer. The suitability of a particular configuration is the responsibility of the physician in charge.

Prescription UseX (Part 21 CFR 801 Subpart D) AN	ID/OR Over-The-Counter Use(21 CFR 801 Subpart C)
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- Odlisten	ffice of Device Evaluation (ODE)
(Division Sign-Off) Division of Reproductive, Abdominal, and Radiological Devices 510(k) Number \(\times \) \(\times \)	Page _1_ of _1_
Special 510(k)	-